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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

*(Use as many sheets as necessary)*

Sheet **1**of **8****Complete If Known**

Application Number	10/809,808
Filing Date	March 26, 2004
First Named Inventor	Boris A. MASLOV
Art Unit	2837
Examiner Name	COLON SANTANA, E.
Attorney Docket Number	76897-018CIP6

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kinds Code <sup>2</sup> If Known			
A1	3,909,685		09/30/1975	BAKER	
A2	4,315,171		02/09/1982	SCHAFFER	
A3	4,438,341		03/20/1984	WINTERBOTHMA	
A4	4,472,649		09/18/1984	NAMBA	
A5	4,683,391		07/28/1987	HIGUCHI	
A6	4,703,189		10/27/1987	DIVALETIN	
A7	4,754,207		06/28/1988	HEIDELBERG	
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A10	4,864,176		09/05/1989	MILLER	
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A12	5,015,903		05/14/1991	HANCOCK	
A13	5,023,527		06/11/1991	ERDMAN	
A14	5,028,804		07/02/1991	LAUW	
A15	5,034,675		07/23/1991	NEROWSKI	
A16	5,105,111		04/14/1992	LEUBKE	
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A20	5,212,419		05/18/1993	FISHER	
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A22	5,289,890		03/01/1994	TOYODA	
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A24	5,319,844		06/14/1994	HUANG	
A25	5,365,137		11/15/1994	RICHARDSON	

Examiner Signature	Date Considered
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\*EXAMINER: initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.1). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached. The collection of information is required by 37 CFR 197 and 198. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Sheet

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Attorney Docket Number	76897-018CIP6

## U.S. PATENT DOCUMENTS

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		Number-Kind Code <sup>3</sup> (if known)			
A26	5,418,437		05/23/1995	COUTURE	
A27	5,438,228		08/01/1995	COUTURE	
A28	5,465,806		11/14/1995	HIGASA	
A29	5,485,491		01/16/1996	SALNICK	
A30	5,545,936		08/29/1995	PIRAN	
A31	5,549,172		08/27/1996	MUTOH	
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A41	5,777,418		07/07/1998	LANGE	
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A50	5,939,807		08/17/1999	PATYK	

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		Number-Kind Code <sup>2</sup> If Known	MM-DD-YYYY		
	A51	5,955,814	09/21/1999	FUJIWARA	
	A52	5,997,107	12/07/1999	KOGA	
	A53	6,002,234	12/14/1999	OHM	
	A54	6,003,626	12/21/1999	IBARAKI	
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	A64	6,213,571	04/10/2001	YAMADA	
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	A69	6,356,005	03/12/2002	HSU	
	A70	6,362,586	03/26/2002	NAIDU	
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Sheet 4

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Art Unit	2837
Examiner Name	COLON SANTANA, E.
Attorney Docket Number	76897-018CIP6

## U.S. PATENT DOCUMENTS

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		Number-Kind Code <sup>2</sup> # known			
A76	6,417,650		07/09/2002	STEFANOVIC	
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A78	6,476,571		11/05/2002	SASAKI	
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A87	2002/0139592		12/09/2003	FUKASAKU	
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A90	2004/0027757		08/21/2007	MINATANI	
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## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	# <sup>4</sup>
		Country Coca <sup>5</sup> Number-Kind Code <sup>2</sup> # known				
B1	DE 195 03 492 A1		08/08/1996	BITZER et al.	w/ Eng. Abst.	
B2	DE 197 04 576 A1		08/13/1998	WARTH MARCO	w/ Eng. Abst.	
B3	DE 199 09 227 A1		10/21/1999	BUHLER MOTOR GmbH	w/ Eng. Abst.	

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First Named Inventor	Boris A. MASLOV
Art Unit	2837
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Office Action Mailed	5/26/2006

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.*	Foreign Patent Document Country Code* Number* Kind Code* <small>Referring</small>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T#
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	B5	EP 0 866 547 A1	09/23/1998	LUNGU IANCU	w/ Eng. Abst.	
	B6	EP 0 913 292 A2	05/06/1999	LOCKHEED MARTIN		
	B7	JP 03031029	02/08/1991	ONO	w/ Eng. Abst.	
	B8	JP 2002/186120 A	06/28/2002	HIROSHI	w/ Eng. Abst. and Eng. comp. trans.	
	B9	WO 90/11641	10/04/1990	HANCOCK et al.		
	B10	WO 99/26802	006/03/1999	AOVSHINSKY et al.		
	B11	WO 01/25049	04/12/2001	CHAUVELIER et al.	w/ Eng. Abst.	
	B12	JP 11-103586	04-13-1999	MAIOCCHI	w/ Eng. Abst. and Eng. comp. trans.	

**Examiner:** \_\_\_\_\_ **Date:** \_\_\_\_\_  
**Supervisor:** \_\_\_\_\_ **Considered:** \_\_\_\_\_

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NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T <sup>2</sup>
C1	V. ARCIDIACONO, S. CORSI, G. TAGLIABUE, G. OTTAVIANI, S. TOGNO, G. BAROFFIO, C. RAFFAELLI and E. ROSA, "The ENEL's Experience on the Evolution of Excitation Control Systems through Microprocessor Technology," IEEE Transactions on Energy Conversion, Vol. 13, No. 3, September 1998, pp. 292-299			
C2	HERNAN DE BATTISTA, RICARDO J. MANTZ and CARLOS F. CHRISTIANSEN, "Dynamical Sliding Mode Power Control of Wind Driven Induction Generators," IEEE Transactions on Energy Conversion, Vol. 15, No. 4, December 2000, pp. 451-457			
C3	R. BLISSENBACH, G. HENNEBERGER, U. SCHAFER and W. HACKMANN, "Development of a Transverse Flux Traction Motor in a Direct Drive System," ICEM2000 Proceedings, Vol. III, August 30, 2000, pp. 1457-1460			
C4	R. BLISSENBACH and G. HENNEBERGER, "New Design of a Soft Magnetic Composite Transverse Flux Machine with Special Attention on the Loss Mechanisms," presented at Electromotion '01 at Bologna, Italy on June 20, 2001			
C5	B.J. CHALMERS and W. WU, "An Axial-Flux Permanent-Magnet Generator for a Gearless Wind Energy System," IEEE Transactions on Energy Conversion, Vol. 14, No. 2, June 1999, pp. 251-257			
C6	T.F. CHAN, LIE-TONG YAN and SHAO-YUAN FANG, "In-Wheel Permanent-Magnet Brushless dc Motor Drive for an Electric Bicycle," IEEE Transactions on Energy Conversion, Vol. 17, No. 2, June 2002, pp. 229-233			
C7	Z. CHEN and E. SPOONER, "Grid Power Quality with Variable Speed Wind Turbines," IEEE Transactions on Energy Conversion, Vol. 16, No. 2, June 2001, pp. 148-154			
C8	TIEN-CHI CHEN and TSONG-TERNG SHEU, "Model Reference Neural Network Controller for Induction Motor Speed Control," IEEE Transactions on Energy Conversion, Vol. 17, No. 2, June 2002, pp. 157-163			
C9	T.M. EMPSON, "Energy Saving Systems for Induction Motors," 1998, at home.clear.net.nz/pages/lmphotronics/es090698.pdf			
C10	JAWAD FAIZ and MOHAMMAD B.B. SHARIFIAN, "Different Techniques for Real Time Estimation of an Induction Motor Rotor Resistance in Sensorless Direct Torque Control for Electric Vehicle," IEEE Transactions on Energy Conversion, Vol. 16, No. 1, March 2001, pp. 104-109			

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**NON PATENT LITERATURE DOCUMENTS**

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C11	JACEK F. GIERSAS and MITCHELL WING, Permanent Magnet Motor Technology, 2nd Edition, 2002, Marcel Dekker, Inc., New York, pp. 230-234, 238-264, 275-276, 283-285, 353-359 and 369-373		
C12	IRVING M. GOTTLIEB, Electric Motors and Control Techniques, 2nd Edition, 1994, TAB Books (Imprint of McGraw Hill), New York, pp. 147-151, 207-210 and 235-239		
C13	CHIH-YI HUANG, TIEN-CHI CHEN and CHING-LIEN HUANG, "A Microcomputer-based Induction Motor Drive System Using Current and Torque Control," IEEE Transactions on Energy Conversion, Vol. 14, No. 4, December 1999, pp. 874-880		
C14	JACK et al., "Permanent magnet machines with powdered iron cores and pre-pressed windings," IEEE IAS Conference, Phoenix, USA, Oct. 1999		
C15	A. JACK, "Electric machine cores from soft magnetic composites: experience, possibilities and practicalities," unpublished		
C16	THOMAS M. JAHNS, "Improved Reliability in Solid-State AC Drives by Means of Multiple Independent Phase-Drive Units," IEEE Transactions on Industry Applications, Vol. IA-16, No. 3, May/June 1980, pp. 321-331		
C17	SURESH H. JANGAMSHETTI and V. GURUPRASADA RAU, "Optimum Siting of Wind Turbine Generators," IEEE Transactions on Energy Conversion, Vol. 16, No. 1, March 2001, pp. 8-13		
C18	JANSSON, "Advances in soft magnetic composites based on iron powder," powder," Soft Magnetic Materials Conference, Barcelona, Spain, April 1998		
C19	JANSSON, et al., "Magnetic assessment of SMC materials," 21st Annual Conference on Properties and Applications of Magnetic Materials, Chicago, USA, May 2002		
C20	EDUARD MULJADI, HERBERT L. HESS and KIM THOMAS, "Zero Sequence Method for Energy Recovery from a Variable-Speed Wind Turbine Generator," IEEE Transactions on Energy Conversion, Vol. 16, No. 1, March 2001, pp. 99-103		
C21	M.A. RAHMAN and M.A. HOQUE, "On-line Adaptive Artificial Neural Network Based Vector Control of Permanent Magnet Synchronous Motors," IEEE Transactions on Energy Conversion, Vol. 13, No. 4, December 1998, pp. 311-318		

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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments or the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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of

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Application Number	10/809,808
Filing Date	March 26, 2004
First Named Inventor	Boris A. MASLOV
Art Unit	2837
Examiner Name	COLON SANTANA, E.
Attorney Docket Number	76889-018CIP6

## NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
C22	V S RAMSDEN, B C MECROW and H C LOVATT,	"Design of an In-Wheel Motor for a Solar-Powered Electric Vehicle," undated, at <a href="http://www.tip.csiro.au/Machines/papers/wscem/">www.tip.csiro.au/Machines/papers/wscem/</a>	
C23	SEKIMORI et al.	"Development of Toyota 'COASTER HYBRID EV,'" 13 <sup>th</sup> International Electric Vehicle Symposium, Osaka, Japan, October 13-16, 1996, Vol. 2, Symp. 13, pp. 16-23	
C24	K.L. SHI, T.F. CHAN, Y.K. WONG and S.L. HO,	"A Rule-Based Acceleration Control Scheme for an Induction Motor," IEEE Transactions on Energy Conversion, Vol. 17, No. 2, June 2002, pp. 254-259	
C25	MASAYUKI TERASHIMA et al.	"Novel Motors and Controllers for High Performance Electric Vehicle with 4 In-Wheel Motors," Proceedings of the 1996 IEEE, IECON 22 <sup>nd</sup> International Conference in Taipei, Taiwan, August 5-10, 1996, pp. 20-27	
C26	DAVID A. TORREY and JAMES M. KOKERNAK,	"Power Steering: Brushless DC or Switched Reluctance?" Power Electronics Technology, Aug. 2002, pp. 24-33	
C27	M. NASIR UDDIN, TAWFIK S. RADWIN and M. AZIZUR RAHMAN,	"Performance of Interior Permanent Magnet Motor Drive Over Wide Speed Range," IEEE Transactions on Energy Conversion, Vol. 17, No. 1, March 2002, pp. 79-84	
C28	UQM Technologies, Inc.	press release dated September 17, 2002 and available on the Web at <a href="http://www.uqm.com/press/news/03-19.html">www.uqm.com/press/news/03-19.html</a>	
C29	VACON PLC,	"Vacon NXS: Advanced Motor Control," undated, at <a href="http://www.vacon.com/products/nxs.html">www.vacon.com/products/nxs.html</a>	
C30	O. WASYNCZUK, S.D. SUDHOFF, K.A. CORZINE, JERRY L. TICHENOR and P.C. KRAUSE,	"A Maximum Torque per Ampere Control Strategy for Induction Motor Drives," IEEE Transactions on Energy Conversion, Vol. 13, No. 2, June 1998, pp. 163-169	
C31	White Paper: Induction Motors - constant frequency; constant voltage variable frequency/variable voltage, Reliance Electric, <a href="http://www.reliance.com/prodserv/motgen/b7097_2.htm">http://www.reliance.com/prodserv/motgen/b7097_2.htm</a> , 2001		
C32	Part of the UQM Technologies, Inc. 2002 Annual Report	dated June 19, 2002	

Examiner Signature		Date Considered	
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